

# **Aggregation Assessment Model for Supply Chain with Artificial Neural Network Approach (Case Study: Pegah Guilan Co.)**

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**The purpose of this study was to measure the factors affecting the agility of the supply chain of Pegah Guilan Company. Accordingly, this research was carried out as a model of the model for assessing supply chain agility with artificial neural network approach in a case study in Pegah Guilan Co. Regarding the subject matter of the research, and in line with the literature on the research, the community available to the study includes dairy and dairy companies in the Pegah province of Guilan, which consists of 70 companies 1393-1396, 80% of the need Have been used. Due to the low number of companies, all suppliers are considered as the statistical community. The applied research method was of a targeted type, applied and in terms of collecting field data and in terms of control of variables, descriptive-survey. A questionnaire was used to collect information. Finally, using artificial neural network, we evaluated the agility of the supply chain of the company. In this research, MATLAB software was used to simulate the neural network. Based on the results, it can be said that by applying agility stimuli, ie changes in the market, changes in the criteria of competition, changes in customer requirements, technological innovation, and changes in social factors can create the capabilities in the supply chain agility. These capabilities include flexibility Accountability, Speed and Competency; therefore, to assess the agility of the supply chain, we can use four indicators of flexibility, accountability, speed and competence.**

**Keywords : : Agility, Artificial Neural Networks, Supply Chain**

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